Officer of Kalina-Cycle Technology

4504. SHRI B. K. HARIPRASAD : Will the Minister of POWER be pleased to state :

(a) whether it is a fact that Energy Inc. an American Company has offered India its 'Kalina-Cycle' technology and expertise for substantial increase in thermal power plant efficiency, reduction in operations costs and lower plant emissions ;

(b) whether it is a fact that adoption of this technology could save India upto 20 billion dollars in 10 years and also a 20 per cent reduction in capital cost of new plants being set up ; and

(c) whether Government would consider setting up a commercial size demonstration unit based on Kalina-Cycle technology for a realistic evaluation of its potential ?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI P. V. RANGAYYA NAIDU) : (a) and (b) M/s. Exergy Inc. of USA has offered Kalina-Cycle Technology for direct fired power generation systems. The power generation efficiency is claimed to be higher by 4 to 5%. This technology is not an established and proven one and cannot be employed on commercial scale. In view of this, the indicated savings as well as reduction in capital costs cannot be estimated.

(c) It requires huge investment towards development of equipment like boiler, steam turbine etc. and setting up of a demonstration plant for proving its cost effectiveness. In view of this, BHEL has proposed association of its Engineers with demonstration plant being planned in USA by M/s. Exergy Inc. of USA.

Joint Venture between National Grid Company and Power Grid Corporation

4505. SHRI B. K. HARIPRASAD : Will the Minister of POWER be pleased to state :

(a) whether it is a fact that the National Grid Company of UK has proposed to set up a joint venture with Power Grid Corporation of India Limited for taking up transmission jobs in India ; and

(b) whether the National Grid's offer would be utilised for on-going projects, especially the Anpara Project of the UP State Electricity Board ?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI P. V. RANGAYYA NAIDU) : (a) Yes, Sir.

(b) A Memorandum of Understanding between POWER GRID and National Grid Company (NGC), UK confirming mutual willingness to build, own and maintain Northern Region to Eastern Region inter-connection transmission project between MAU and Biharshariff has been siggned. As the MAU signed so far is specific to this project, National Grid offer cannot be utilised for the implementation of on-going projects, especially the Anpara project of UPSEB.

Transmission and Distribution Systems

4506. DR. NAUNIHAL SINGH : Will the Minister of POWER be pleased to state :

(a) whether it is a fact that transmission and distribution systems have been neglected ;

(b) if so, the reasons therefor ;

(c) whether it is a fact that the expenditure incurred on the transmission and distribution systems is not commensurate with that made on generation ;

(d) if so, the reasons therefor ;

(e) whether Government are aware of the World Bank study which recommends that it should be equal ; and

(f) if so, what are the details of steps Government have taken in this regard ?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI P. V. RANGAYYA NAIDU) : (a) and (b) The transmission system (EHV) in the country has been planned as a part of the evacuation system for the generation projects installed in the country after conducting system studies and requirement. The distribution system has been extended from time to time for meeting immediate load demand without strengthening distribution network and building up back up system. There have been slippages due to the paucity of funds.

(c) Yes, Sir.

(d) Overall shortage of power and rising demand coupled with paucity of funds have been responsible for putting more stress on additional capacity generation projects at the cost of transmission and distribution system.

(e) and (f) Govt. are not aware of the World Bank study which recommends equal expenditure on generation and T&D. However, Rajyadhaksha Committee on Power set up by the Government had recommended that ratio of planned expenditure on power sector between generation and T&D should be equal.

एन०टी०पी०सी० प्रबंधन द्वारा भोपाल गैस त्रासदी राहत कोष

4507. **श्री लखो राम अग्रवाल** : क्या विद्युत मंत्री यह बताने की कृपा करेंगे कि :

(क) क्या यह सच है कि एन० टी० पी० सी० प्रबन्धन ने भोपाल गैस त्रासदी के पीड़ित व्यक्तियों के लिए 1985 में एन० टी० पी० सी० के कर्मचारियों से कितनी धनराशि एकत्रित की थी;

(ख) यदि हां, तो इस प्रकार एकत्रित धनराशि का ब्यौरा क्या है;

(ग) क्या यह सच है कि इस धनराशि को 1989 तक पीड़ितों को नहीं भेजा गया था; और

(घ) यदि हां, तो इस संबंध में सरकार द्वारा क्या कार्यवाही की गयी है ?

विद्युत मंत्रालय में राज्य मंत्री (श्री पी०वी० रंगैय्या नायडू) : (क) से (ग) राष्ट्रीय ताप विद्युत निगम (एन० टी० पी० सी०) का कोरबा सुपर ताप विद्युत केन्द्र केवल 9561.67 रुपये एकत्र करने में सफल रहा था और इसीलिए एन० टी० पी० सी० द्वारा इस राशि को वापिस लौटाने का निर्णय लिया गया था ।

(घ) प्रश्न उत्पन्न नहीं होता ।

AES Transpowers' Thermal Power Project in Orissa

4508. SHRIMATI KAMLA SINHA :

DR. BAPU KALDATE :

Will the Minister of POWER be pleased to state :

(a) whether it is a fact that clearance for US, AES Transpower's Thermal Power Project at IB Valley has been given by Government despite the fact that agreement on controversial issues between the company and the State Government of Orissa was yet to be arrived at; and

(b) if so, what are the reasons therefor ?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI P. V. RANGAYYA NAIDU) : (a) No, Sir. Though the project has been given approval by Government from the angle of foreign investment, the techno-economic clearance is still to be given by the Central Electricity Authority. Orissa State Electricity Board and AES have recently agreed to an amended power purchase agreement. The amended agreement is being examined by Government of India.

(b) Does not arise.

टिहरी बांध में दरारें

4509. **श्री बीरेन जे० शाह** : क्या विद्युत मंत्री यह बताने की कृपा करेंगे कि :

(क) क्या यह सच है कि अभी हाल ही में उपग्रह द्वारा लिये गये चित्रों के प्रकाशन से यह पता चला है कि टिहरी बांध परियोजना की जलाशय परिधि में भूस्खलन के कारण 71 दरारें पड़ गयी है;

(ख) यदि हां, तो ये दरारें कब आयी थी और क्या ये दरार पिछले भूकम्प के कारण आयी हैं,

(ग) क्या सरकार बांध की सुरक्षा को ध्यान में रखते हुए बांध परियोजना निर्माण के संबंध में पुनर्विचार करेगी; और

(घ) यदि नहीं, तो इसके क्या कारण हैं ?

विद्युत मंत्रालय में राज्य मंत्री (श्री पी० वी० रंगैय्या नायडू) : (क) से (घ) सूचना एकत्र की जा रही है और सभा पटल पर रख दी जाएगी ।

Modernisation of Power Transmission System

4510. SHRI AHMED MOHMEDBHAI PATEL :

SHRI SURESH PACHOURI :

Will the Minister of POWER be pleased to state :

(a) whether one US multi-national has offered to modernise power transmission system in India at cheaper cost;

(b) if so, whether this multi-national company is one of the oldest major companies;